DEAD BIRD COMPOSTER SIZING WORKSHEET

Conservation District:Cooperator:										
	Anticipated mortality for flock, as decimal (NOTE: Mortality may range from 3-5% for broilers, up to 18% for breeders. Use actual data or use Poultry Waste Data Table 1 – GA-ENG-313T1.)									
W _S =	Weight of birds near maturity, lbs. (ex.: 4.2 lbs for broilers)									
T =	Life of flock, days (ex.: 42 days for broilers).									
W _T =	Weight of daily loss									
	 Volume factor (1.5 – 2.5) NOTE: Volume factor is based on local conditions, experiences, and management skills of operator. 									
	В	x	М	x	W_s	1	Т	=	\mathbf{W}_{T}	
		x		Х		/		=		lbs/day
	ype of co	mposte ns – Re	r (Check movable	_ x cone): e wall at el	ntrance				ft ³	
A. Dim	ensions	of Sta	ndard B	ins:						
h	= he	ight of l	oin (4 to	5 ft.)	=			ft.		
\mathbf{Y}_{1}	= de	pth of b	in (6 or 1	10 ft.)	=	· · · · · · · · · · · · · · · · · · ·		ft.		
Y ₂	= wi	dth (fror	nt) of bin	(10 ft.)	=			ft.		
V_{B}	= ind	dividual	bin voluı	me = h :	x Y ₁ x '	Y ₂				
V_{B}	=	x _	x _	=	:		ft ³			
No.	of bins =	V ₁ / V _B	=		/		_ = _			_ bins
Nun	nber of F	rimary	Bins:							
Note	e: A mini	mum of	2 primai	ry bins red	guired fo	r standa	ard bins).		

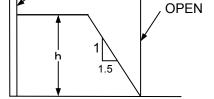
B. Dimensions of Deep Bins:

h = height of bin (4 to 5 ft.) = _____ ft.

 Y_1 = depth of bin (15 to 20 ft.)

= _____ ft.

 Y_2 = width (front) of bin (10 ft.)



– Y₁ –

WALL

 V_B = individual bin volume = $[(\mathbf{h} \times \mathbf{Y_1}) - (\mathbf{1.5} \times \mathbf{h}^2 / 2)] \times \mathbf{Y_2}$

$$V_B = [(\underline{} x \underline{}) - (1.5 x \underline{}^2 / 2)] x \underline{} = \underline{} ft^3$$

No. of bins = V_1 / V_B = _____ bins

Number of Primary Bins: _____

NOTE: A minimum of 2 primary bins are required for deep bins.

SECONDARY BINS:

- **A.** Volume shall equal or exceed $V_1 =$
- B. Size of Secondary Bins: _____x ____x
- C. Number of Secondary Bins: _____

NOTE: For every primary deep bin, there shall be a secondary bin of equal size.

LITTER STORAGE:

- **A.** Volume shall equal or exceed $V_1 =$
- B. Size of litter storage: _____ x ____ x _____ x

NOTE: Breeder storage volume shall be doubled.

NOTE: Litter storage is not required if the producer has a litter dry stack structure.

Designed by: Date: Checked by:____ Date:___ Approved by: Date: